### 1. Type of Application

This new application is for a(n):

(check one applicable item below)

		(check one applicable tiem out on)			
	[X] [] []	Original (nonprovisional) Design Plant			
WARNING: 371(c)(4, applicati		<b>Do not</b> use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. unless the International Application is being filed as a divisional, continuation or continuation-in-part on.			
WARNI!	VG:	Do not use this transmittal for the filing of a provisional application.			
NOTE:	TRANSM	he following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION ITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.			
	ij	Divisional. Continuation. Continuation-in-part (C-I-P).			

### 2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in  $\S$  1.53(b) or  $\S$  1.53(d) and include the basic filing fee set forth in  $\S$  1.16; or
- (iv) Entitled to a filing date as set forth in  $\S$  1.53(b) and have paid therein the processing and retention fee set forth in  $\S$  1.21(l) within the time period set forth in  $\S$  1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See



Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNI	holiday applicat	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal within the District of Columbia, any nonprovisional application claiming benefit of the provisional ion must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See R. § 1.78(a)(3).
	[]	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION (S) CLAIMED.
3.	Papers	s Enclosed
	<b>A.</b>	Required for Filing Date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
		_16 Pages of Specification _8_ Pages of Claims _2_ Sheets of Drawing
WARNI	a patent shiny pa be made Office. (	<b>DO NOT</b> submit original drawings. A high quality copy of the drawings should be supplied when filing application. The drawings that are submitted to the Office must be on strong, white, smooth, and nonper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of 1, 1988. (1990 O.G. 57-62).
NOTE:	name, de match th	ving indicia, if provided, should include the application number or the title of the invention, inventor's ocket number (if any), and the name and telephone number of a person to call if the Office is unable to be drawings to the proper application. This information should be placed on the back of each sheet of a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page" 37 C.F.R. § 1.84(c)).
		(complete the following, if applicable)
	[]	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).
	[X] []	Formal Informal
	В.	Other Papers Enclosed  2 Pages of declaration and power of attorney  1 Pages of Abstract Other
4.	Additi	onal Papers Enclosed
	[]	Amendment to claims
		[] Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
		Add the claims shown on the attached amendment. (Claims added have beer numbered consecutively following the highest numbered original claims.)

	[ ] [ ] [ ] [ ]	Information Porm P	inary Amendment ation Disclosure Statement (37 C.F.R. § 1.98) PTO-1449 (PTO/SB/08A and 08B) ns ation of Biological Deposit	
	[]	Submis pertain acid se	ssion of "Sequence Listing," computer readable copy and/or amendment ing thereto for biotechnology invention containing nucleotide and/or amino quence.	
	[]		ization of Attorney(s) to Accept and Follow Instructions from Representative Comments	
5.	Declar	ation or	Oath (including power of attorney)	
NOTE:	nonprove all the in of the ex was sign person(s under § status or	why executed declaration is not required in a continuation or divisional application provided the prior revisional application contained a declaration as required, the application being filed is by all or fewer than $\epsilon$ inventors named in the prior application, there is no new matter in the application being filed, and a copy executed declaration filed in the prior application (showing the signature or an indication thereon that it igned) is submitted. The copy must be accompanied by a statement requesting deletion of the names of $n(s)$ who are not inventors of the application being filed. If the declaration in the prior application was filed $\epsilon \cdot s$ 1.47 then a copy of that declaration must be filed accompanied by a copy of the decision granting $s$ 1.47 as subsequently joined in a prior application, then a copy of the quently executed declaration must be filed. See 37 C.F.R. $s$ 1.63(d)(1)-(3).		
NOTE:	identify o	each inven with any (	I to complete an application must be executed, identify the specification to which it is directed, stor by full name, including the family name, and at least one given name without abbreviation other given name or initial, and the residence, post office address and country of citizenship of $t$ state whether the inventor is a sole or joint inventor. $t$ 37 C.F.R. $t$ 1.63(a)(1)-(4).	
	[x]	Enclos	ed	
		Execut	ed by	
			(check all applicable boxes)	
		[x] [] []	inventor(s). legal representative of inventor(s). 37 C.F.R. § 1.42 or 1.43. joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.	
			[ ] This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.	
	[]	Not En	closed.	
NOTE:	applicat a contin	ion contai uation or (	a completion in the U.S. of an International Application, or where the completion of the U.S. ins subject matter in addition to the International Application, the application may be treated as continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION CHAIMED.	
		[]	Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of <i>all</i> the above named inventor(s).	

(The declaration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e),

# can be filed subsequently).

[]	Showing that the filing is authorized.	
	(not required unless called into question. 37 C.F.R. §	1.41(d))

# 6. Inventorship Statement

WARNI			med inventors are each not the inventors of all the claims an explanation, including the various claims at the time the last claimed invention was made, should be submitted.			
The in	ventorsh	ip for al	I the claims in this application are:			
	[X]	The sa	me. or			
	[]		e same. An explanation, including the ownership of the various claims at the last claimed invention was made, is submitted.  will be submitted.			
7.	Langu	age				
NOTE:	translati	on of the	cluding a signed oath or declaration may be filed in a language other than English. An Englis non-English language application and the processing fee of \$130.00 required by 37 C.F.R. $\S$ d to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. $\S$			
	[X] []	Englis Non-E				
		[]	Attached is a statement that this application is an accurate translation from Chinese to English.			
8.	Assignment					
	[]	An ass	signment of the invention to			
		[]	is attached. A separate [ ] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or [ ] FORM PTO 1595 is also attached.			
		[]	will follow.			
NOTE:			is submitted with a new application, send two separate letters-one for the application and one t" Notice of May 4, 1990 (1114 O.G. 77-78).			

WARNING: A newly executed "STATEMENT UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

## 9. Certified Copy

Certified copy(ies) of application(s)

Cour	ntry	Appln. no.	Filed	
Cour	ntry	Appln. no.	Filed	
Cour	ntry	Appln. no.	Filed	
from which p	oriority is claimed is (are) attached.	,		
[]	will follow.			

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 C.F.R. § 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

# 10. Fee Calculation (37 C.F.R. § 1.16)

## A. [X] Regular application

		CLAIMS AS	FILED			
Claims	Number Filed	d Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. §1.16(a)	
					\$750.00	
Total Claims (37 C.F.R. § 1.16(c))	32	20	12	\$18.0	0 \$216.00	
Independent Claims (37 C.F.R. § 1.16(b))	3	3	0	\$84.	00	
Multiple Dependent Claim(s), if any (37 C.F.R. § 1.16(d))	0		0	\$280	0.00	

[]	Amendment canceling extra claims is enclosed.
[]	Amendment deleting multiple-dependencies is enclosed.
[]	Fee for extra claims is not being paid at this time.

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(d).

	В.	[ ] Design application (\$320.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation \$
		rining ree Calculation 5
	C.	[ ] Plant application (\$490.00—37 C.F.R. § 1.16(g)) Filing Fee Calculation  \$
11.	Small E	Entity Statement(s)
	[X]	Applicant is entitled to small entity status.
WARNI	available patent, inc which the continuate applicatio reissue ap prior appi nonprovis in the pate still prope	"Status as a small entity must be specifically established in each application or patent in which the status is and desired. Status as a small entity in one application or patent does not affect any other application or cluding applications or patents which are directly or indirectly dependent upon the application or patent in status has been established. The refiling of an application under § 1.53 as a continuation, division, or ion-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue moreover requires a new determination as to continued entitlement to small entity status for the continuing or application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) of a dication, or a reissue application may rely on a statement filed in the prior application or in the patent if the isional application or the reissue application includes a reference to the statement in the prior application or ent or includes a copy of the statement in the prior application or in the patent and status as a small entity is er and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for of this section." 37 C.F.R. § 1.28(a)(2).
		(complete the following, if applicable)
	[]	Status as a small entity was claimed in prior application
		[ ] 121, [ ] 365(c),
		and which status as a small entity is still proper and desired.
		[ ] A copy of the statement in the prior application is included.
		Filing Fee Calculation (50% of <b>A</b> , <b>B</b> or <b>C</b> above) \$ 483.00
NOTE:		is of the full fee paid will be refunded if a small entity status is established refund request are filed within 2 $^{\circ}$ the date of timely payment of a full fee. The two-month period is not extendable under § 1.136. 37 C.F.R. §
12.	Reques	t for International-Type Search (37 C.F.R. § 1.104(d))
		(complete, if applicable)
	[]	Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

	[X].	Not En	closed			
		[ X]	No filing fee is to be paid at this time.  (This and the surcharge required by 37 C.F.R. § subsequently.)	1.16(e)	can be	e paid
	[]	Enclose	ed			
		[]	Basic Filing fee	\$		_
		[]	Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	\$		_
		[]	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$		
		[]	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$		_
		[]	Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$		
		[]	Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$	·	<u>_</u>
NOTE:	complete 1.78(a)(1)	the applicate	establishes a fee for processing and retaining any application that a ation pursuant to 37 C.F.R. § 1.53(f) and this, as well as the change that in order to obtain the benefit of a prior U.S. application, either ing and retention fee of § 1.21(l) must be paid, within 1 year from notification.	s to 37 C the basic	I.F.R. § filing fee	.53 and must be
			Total Fees Enclosed	\$	0.00	<del>-</del> -
14.	Method	of Payı	ment of Fees			
	[]	Check i	in the amount of \$ 0.00 is enclosed.			
[ ] Charge Account No in the amount of \$  A duplicate of this transmittal is attached.			_•			

Fee Payment Being Made at This Time

13.

NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b).

15.	Author	rization	to Charge Additional Fees
WARNI	NG:	If no fe	es are to be paid on filing, the following items should <u>not</u> be completed.
WARNI			tely count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra authorized.
	[]		Commissioner is hereby authorized to charge the following additional fees by this and during the entire pendency of this application to Account No. 03-1723.
		[]	37 C.F.R. § 1.16(a), (f) or (g) (filing fees)
		[]	37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)
NOTE:	be paid o in any no	or these c otice of fe	al fees for excess or multiple dependent claims not paid on filing or on later presentation must only laims cancelled by amendment prior to the expiration of the time period set for response by the PTC tee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional possibly when dealing with amendments after final action.
		[,]	37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
		[]	37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a).
		[]	37 C.F.R. § 1.17 (application processing fees)
NOTE:	requiring for exten or all re concurre Submissi	g a petition of the equired enter fut for fut for the enter fut for the enter fut fon of the enter fut fon the enter fut	It may be submitted in an application that is an authorization to treat any concurrent or future reply on for an extension of time under this paragraph for its timely submission, as incorporating a petition me for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17 extension of time fees will be treated as a constructive petition for an extension of time in any ure reply requiring a petition for an extension of time under this paragraph for its timely submission fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in an requiring a petition for an extension of time under this paragraph for its timely submission." 3. (3).
		[]	37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance pursuant to 37 C.F.R. § 1.311(b))
NOTE:	Allowand	ce, the is	ization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of sue fee will be automatically charged to the deposit account at the time of mailing the notice of $F.R. \ $ § 1.311(b)).
NOTE:	must be C.F.R. §	filed in ti 1.28(b)	(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status the application prior to paying, or at the time of paying, issue fee." From the wording of 3 , (a) notification of change of status must be made even if the fee is paid as "other than a small notification is required if the change is to another small entity.
16.	Instru	ctions a	s to Overpayment
NOTE:	nor will	the paye	twenty-five dollars or less will not be returned unless specifically requested within a reasonable time or be notified of such amounts; amounts over twenty-five dollars may be returned by check or, the definition of the control of
	[X]	Credi	t Account No

[]

Refund

#### **Request Not to Publish** 17.

Applicants request that this application not be published, since at this time the [x] application has not been and will not be the subject of an application filed in another country that requires eighteen month publication.

SIGNATURE OF PRACTITIONER
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